



Cisco ME 6500 Series Ethernet Switch Installation Note

This publication contains the procedures for installing, cabling, and powering up the Cisco ME 6500 series Ethernet switch. For complete information about installing the Cisco ME 6500 series Ethernet switch, see the *Cisco ME 6500 Series Ethernet Switch Installation Guide* on Cisco.com. For configuration information, see the *Cisco ME 6500 Series Ethernet Switch Software Configuration Guide*.



Note

For the latest Cisco ME 6500 series Ethernet switch software release notes, including caveats and updates, refer to the release notes for the latest maintenance release in your software release. You can access release notes at the World Wide Web locations listed in the “Obtaining Documentation” section.

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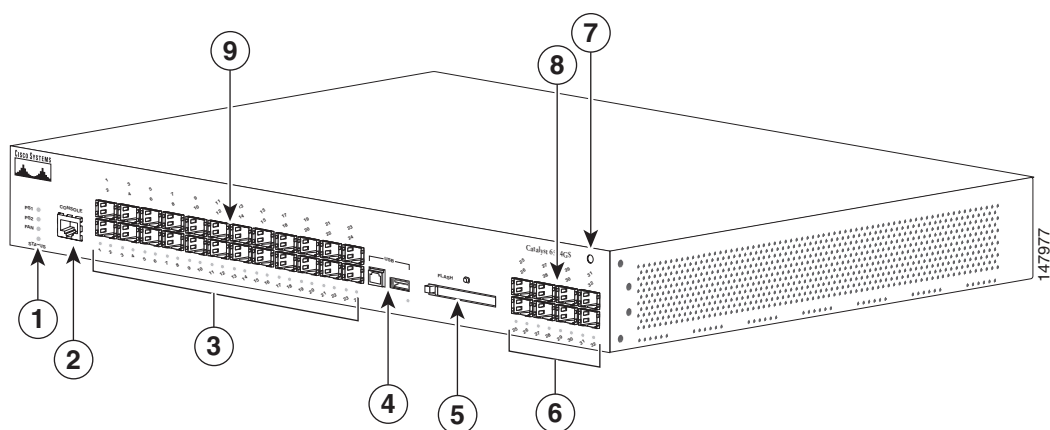
Overview

The Cisco ME 6524 Ethernet switch is an Ethernet access switch in a 1.5 RU standalone chassis. There are two models of the Cisco ME 6524 Ethernet switch:

- ME-C6524GS-8S—This model of the Cisco ME 6524 Ethernet switch has 24 Ethernet SFP downlink ports and 8 Ethernet SFP uplink ports. SFP transceivers must be installed in the port sockets for the ports to be active.
- ME-C6524GT-8S—This model of the Cisco ME 6524 Ethernet switch has 24 10/100/1000 downlink ports and 8 Ethernet SFP uplink ports. Only the uplink ports require that SFP transceivers be installed in the port sockets for the ports to be active.

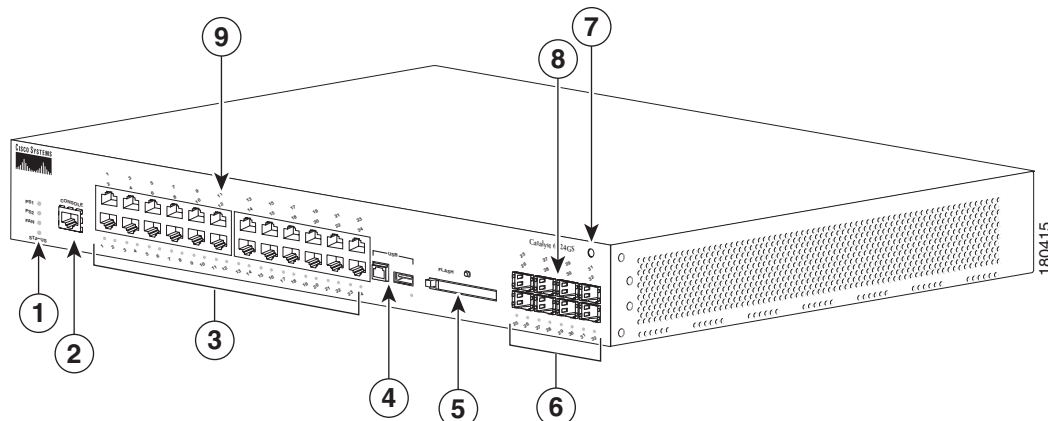
Chassis features for both chassis are identified in the following three figures. [Figure 1](#) identifies the front panel features of the ME-C6524GS-8S chassis. [Figure 2](#) identifies the front panel features of the ME-C6524GT-8S chassis. [Figure 3](#) identifies the rear panel features that are common to both chassis.

Figure 1 Cisco ME 6524 Ethernet Switch (ME-C6524GS-8S) Front Panel Features



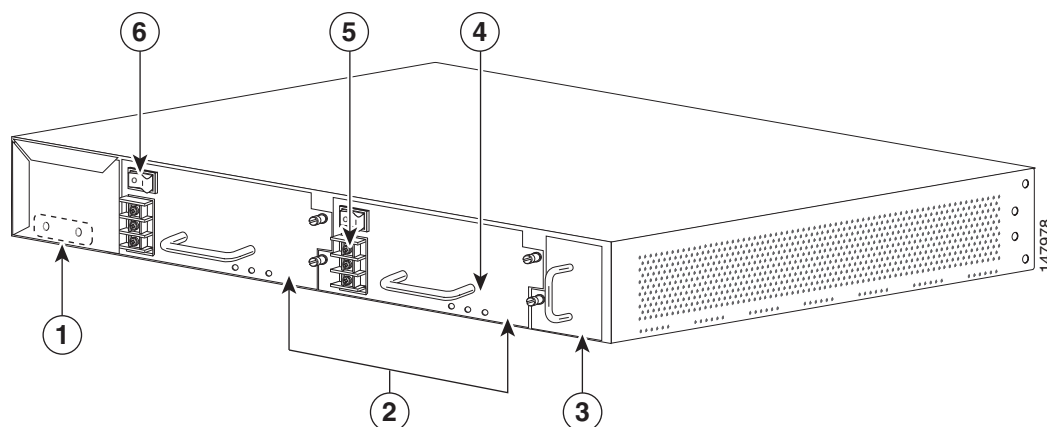
1	Status LEDs and RESET switch	6	Uplink port status LEDs
2	CONSOLE port (RJ-45 connector)	7	ESD ground strap connector
3	Downlink port status LEDs	8	8 uplink ports (SFP transceivers required)
4	USB ports	9	24 downlink ports (SFP transceivers required)
5	PCMCIA connector		

Figure 2 Cisco ME 6524 Ethernet Switch (ME-C6524GT-8S) Front Panel Features



1	Status LEDs and RESET switch	6	Uplink port status LEDs
2	CONSOLE port (RJ-45 connector)	7	ESD ground strap connector
3	Downlink port status LEDs	8	8 uplink ports (SFP transceivers required)
4	USB ports	9	24 10/100/1000 downlink ports
5	PCMCIA connector		

Figure 3 Chassis Back Panel Features



1	System ground pad	4	Power supply status LEDs
2	Power supplies (DC-input power supplies shown)	5	Terminal block (DC-input power supplies only)
3	Fan tray	6	Power supply on/off switch

Safety Overview

Safety warnings appear throughout this publication in procedures that may harm you if performed incorrectly. A warning symbol precedes each warning statement.

Statement 1071—Warning Definition



Warning

IMPORTANT SAFETY INSTRUCTIONS

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device. Statement 1071

SAVE THESE INSTRUCTIONS

Waarschuwing

BELANGRIJKE VEILIGHEIDSINSTRUCTIES

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van de standaard praktijken om ongelukken te voorkomen. Gebruik het nummer van de verklaring onderaan de waarschuwing als u een vertaling van de waarschuwing die bij het apparaat wordt geleverd, wilt raadplegen.

BEWAAR DEZE INSTRUCTIES

Varoitus

TÄRKEITÄ TURVALLISUUSOHJEITA

Tämä varoitusmerkki merkitsee vaaraa. Tilanne voi aiheuttaa ruumiillisia vammoja. Ennen kuin käsittelet laitteistoa, huomioi sähköpiirien käsittelemiseen liittyvät riskit ja tutustu onnettomuuksien yleisiin ehkäisytapoihin. Turvallisuusvaroitusten käännökset löytyvät laitteen mukana toimitettujen käännettyjen turvallisuusvaroitusten joukosta varoitusten lopussa näkyvien lausuntonumeroiden avulla.

SÄILYTÄ NÄMÄ OHJEET

Attention IMPORTANTES INFORMATIONS DE SÉCURITÉ

Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant entraîner des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers liés aux circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions des avertissements figurant dans les consignes de sécurité traduites qui accompagnent cet appareil, référez-vous au numéro de l'instruction situé à la fin de chaque avertissement.

CONSERVEZ CES INFORMATIONS**Warnung WICHTIGE SICHERHEITSHINWEISE**

Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu Verletzungen führen kann. Machen Sie sich vor der Arbeit mit Geräten mit den Gefahren elektrischer Schaltungen und den üblichen Verfahren zur Vorbeugung vor Unfällen vertraut. Suchen Sie mit der am Ende jeder Warnung angegebenen Anweisungsnummer nach der jeweiligen Übersetzung in den übersetzten Sicherheitshinweisen, die zusammen mit diesem Gerät ausgeliefert wurden.

BEWAHREN SIE DIESE HINWEISE GUT AUF.**Avvertenza IMPORTANTI ISTRUZIONI SULLA SICUREZZA**

Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di intervenire su qualsiasi apparecchiatura, occorre essere al corrente dei pericoli relativi ai circuiti elettrici e conoscere le procedure standard per la prevenzione di incidenti. Utilizzare il numero di istruzione presente alla fine di ciascuna avvertenza per individuare le traduzioni delle avvertenze riportate in questo documento.

CONSERVARE QUESTE ISTRUZIONI**Advarsel VIKTIGE SIKKERHETSINSTRUKSJONER**

Dette advarselssymbolet betyr fare. Du er i en situasjon som kan føre til skade på person. Før du begynner å arbeide med noe av utstyret, må du være oppmerksom på farene forbundet med elektriske kretser, og kjenne til standardprosedyrer for å forhindre ulykker. Bruk nummeret i slutten av hver advarsel for å finne oversettelsen i de oversatte sikkerhetsadvarslene som fulgte med denne enheten.

TA VARE PÅ DISSE INSTRUKSJONENE

Aviso INSTRUÇÕES IMPORTANTES DE SEGURANÇA

Este símbolo de aviso significa perigo. Você está em uma situação que poderá ser causadora de lesões corporais. Antes de iniciar a utilização de qualquer equipamento, tenha conhecimento dos perigos envolvidos no manuseio de circuitos elétricos e familiarize-se com as práticas habituais de prevenção de acidentes. Utilize o número da instrução fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham este dispositivo.

GUARDE ESTAS INSTRUÇÕES**¡Advertencia! INSTRUCCIONES IMPORTANTES DE SEGURIDAD**

Este símbolo de aviso indica peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considere los riesgos de la corriente eléctrica y familiarícese con los procedimientos estándar de prevención de accidentes. Al final de cada advertencia encontrará el número que le ayudará a encontrar el texto traducido en el apartado de traducciones que acompaña a este dispositivo.

GUARDE ESTAS INSTRUCCIONES**Varning! VIKTIGA SÄKERHETSANVISNINGAR**

Denna varningssignal signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanliga förfaranden för att förebygga olyckor. Använd det nummer som finns i slutet av varje varning för att hitta dess översättning i de översatta säkerhetsvarningar som medföljer denna anordning.

SPARA DESSA ANVISNINGAR**FONTOS BIZTONSÁGI ELOÍRÁSOK**

Ez a figyelmeztető jel veszélyre utal. Sérülésveszélyt rejtő helyzetben van. Mielőtt bármely berendezésen munkát végezte, legyen figyelemmel az elektromos áramkörök okozta kockázatokra, és ismerkedjen meg a szokásos balesetvédelmi eljárásokkal. A kiadványban szereplő figyelmeztetések fordítása a készülékhez mellékelt biztonsági figyelmeztetések között található; a fordítás az egyes figyelmeztetések végén látható szám alapján kereshető meg.

ORIZZE MEG EZEKET AZ UTASÍTÁSOKAT!

Предупреждение

ВАЖНЫЕ ИНСТРУКЦИИ ПО СОБЛЮДЕНИЮ ТЕХНИКИ БЕЗОПАСНОСТИ

Этот символ предупреждения обозначает опасность. То есть имеет место ситуация, в которой следует опасаться телесных повреждений. Перед эксплуатацией оборудования выясните, каким опасностям может подвергаться пользователь при использовании электрических цепей, и ознакомьтесь с правилами техники безопасности для предотвращения возможных несчастных случаев. Воспользуйтесь номером заявления, приведенным в конце каждого предупреждения, чтобы найти его переведенный вариант в переводе предупреждений по безопасности, прилагаемом к данному устройству.

СОХРАНИТЕ ЭТИ ИНСТРУКЦИИ

警告

重要的安全性说明

此警告符号代表危险。您正处于可能受到严重伤害的工作环境中。在您使用设备开始工作之前，必须充分意识到触电的危险，并熟练掌握防止事故发生的标准工作程序。请根据每项警告结尾提供的声明号码来找到此设备的安全性警告说明的翻译文本。

请保存这些安全性说明

警告

安全上の重要な注意事項

「危険」の意味です。人身事故を予防するための注意事項が記述されています。装置の取り扱い作業を行うときは、電気回路の危険性に注意し、一般的な事故防止策に留意してください。警告の各国語版は、各注意事項の番号を基に、装置に付属の「Translated Safety Warnings」を参照してください。

これらの注意事項を保管しておいてください。

주의

중요 안전 지침

이 경고 기호는 위험을 나타냅니다. 작업자가 신체 부상을 일으킬 수 있는 위험한 환경에 있습니다. 장비에 작업을 수행하기 전에 전기 회로와 관련된 위험을 숙지하고 표준 작업 관례를 숙지하여 사고를 방지하십시오. 각 경고의 마지막 부분에 있는 경고문 번호를 참조하여 이 장치와 함께 제공되는 번역된 안전 경고문에서 해당 번역문을 찾으십시오.

이 지시 사항을 보관하십시오.

Aviso INSTRUÇÕES IMPORTANTES DE SEGURANÇA

Este símbolo de aviso significa perigo. Você se encontra em uma situação em que há risco de lesões corporais. Antes de trabalhar com qualquer equipamento, esteja ciente dos riscos que envolvem os circuitos elétricos e familiarize-se com as práticas padrão de prevenção de acidentes. Use o número da declaração fornecido ao final de cada aviso para localizar sua tradução nos avisos de segurança traduzidos que acompanham o dispositivo.

GUARDE ESTAS INSTRUÇÕES**Advarsel VIGTIGE SIKKERHEDSANVISNINGER**

Dette advarselssymbol betyder fare. Du befinder dig i en situation med risiko for legemesbeskadigelse. Før du begynder arbejde på udstyr, skal du være opmærksom på de involverede risici, der er ved elektriske kredsløb, og du skal sætte dig ind i standardprocedurer til undgåelse af ulykker. Brug erklæringsnummeret efter hver advarsel for at finde oversættelsen i de oversatte advarsler, der fulgte med denne enhed.

GEM DISSE ANVISNINGER

تحذير

إرشادات الأمان الهامة

يوضح رمز التحذير هذا وجود خطر. وهذا يعني أنك متواجد في مكان قد ينتج عنه التعرض لإصابات. قبل بدء العمل، احذر مخاطر التعرض للصدمات الكهربائية وكن على علم بالإجراءات القياسية للحيلولة دون وقوع أي حوادث. استخدم رقم البيان الموجود في آخر كل تحذير لتحديد مكان ترجمته داخل تحذيرات الأمان المترجمة التي تأتي مع الجهاز. قم بحفظ هذه الإرشادات

Upozorenje VAŽNE SIGURNOSNE NAPOMENE

Ovaj simbol upozorenja predstavlja opasnost. Nalazite se u situaciji koja može prouzročiti tjelesne ozljede. Prije rada s bilo kojim uređajem, morate razumjeti opasnosti vezane uz električne sklopove, te biti upoznati sa standardnim načinima izbjegavanja nesreća. U prevedenim sigurnosnim upozorenjima, priloženima uz uređaj, možete prema broju koji se nalazi uz pojedino upozorenje pronaći i njegov prijevod.

SAČUVAJTE OVE UPUTE**Upozornění DŮLEŽITÉ BEZPEČNOSTNÍ POKYNY**

Tento upozorňující symbol označuje nebezpečí. Jste v situaci, která by mohla způsobit nebezpečí úrazu. Před prací na jakémkoliv vybavení si uvědomte nebezpečí související s elektrickými obvody a seznamte se se standardními opatřeními pro předcházení úrazům. Podle čísla na konci každého upozornění vyhledejte jeho překlad v přeložených bezpečnostních upozorněních, která jsou přiložena k zařízení.

USCHOVEJTE TYTO POKYNY

Προειδοποίηση

ΣΗΜΑΝΤΙΚΕΣ ΟΔΗΓΙΕΣ ΑΣΦΑΛΕΙΑΣ

Αυτό το προειδοποιητικό σύμβολο σημαίνει κίνδυνο. Βρίσκεστε σε κατάσταση που μπορεί να προκαλέσει τραυματισμό. Πριν εργαστείτε σε οποιοδήποτε εξοπλισμό, να έχετε υπόψη σας τους κινδύνους που σχετίζονται με τα ηλεκτρικά κυκλώματα και να έχετε εξοικειωθεί με τις συνήθεις πρακτικές για την αποφυγή ατυχημάτων. Χρησιμοποιήστε τον αριθμό δήλωσης που παρέχεται στο τέλος κάθε προειδοποίησης, για να εντοπίσετε τη μετάφρασή της στις μεταφρασμένες προειδοποιήσεις ασφαλείας που συνοδεύουν τη συσκευή.

ΦΥΛΑΞΤΕ ΑΥΤΕΣ ΤΙΣ ΟΔΗΓΙΕΣ

אזהרה

הוראות בטיחות חשובות

סימן אזהרה זה מסמל סכנה. אתה נמצא במצב העלול לגרום לפציעה. לפני שתעבוד עם ציוד כלשהו, עליך להיות מודע לסכנות הכרוכות במעגלים חשמליים ולהכיר את הנהלים המקובלים למניעת תאונות. השתמש במספר ההוראה המסופק בסופה של כל אזהרה כדי לאתר את התרגום באזהרות הבטיחות המתורגמות שמצורפות להתקן.

שמור הוראות אלה

Opomena

ВАЖНИ БЕЗБЕДНОСНИ НАПАТСТВИЈА

Симболот за предупредување значи опасност. Се наоѓате во ситуација што може да предизвика телесни повреди. Пред да работите со опремата, бидете свесни за ризикот што постои кај електричните кола и треба да ги познавате стандардните постапки за спречување на несреќни случаи. Искористете го бројот на изјавата што се наоѓа на крајот на секое предупредување за да го најдете неговиот период во преведените безбедносни предупредувања што се испорачани со уредот. ЧУВАЈТЕ ГИ ОБИЕ НАПАТСТВИЈА

Ostrzeżenie

WAŻNE INSTRUKCJE DOTYCZĄCE BEZPIECZEŃSTWA

Ten symbol ostrzeżenia oznacza niebezpieczeństwo. Zachodzi sytuacja, która może powodować obrażenia ciała. Przed przystąpieniem do prac przy urządzeniach należy zapoznać się z zagrożeniami związanymi z układami elektrycznymi oraz ze standardowymi środkami zapobiegania wypadkom. Na końcu każdego ostrzeżenia podano numer, na podstawie którego można odszukać tłumaczenie tego ostrzeżenia w dołączonym do urządzenia dokumencie z tłumaczeniami ostrzeżeń.

NINIEJSZE INSTRUKCJE NALEŻY ZACHOWAĆ

Upozornenie DŮLEŽITÉ BEZPEČNOSTNÉ POKYNY

Tento varovný symbol označuje nebezpečenstvo. Nachádzate sa v situácii s nebezpečenstvom úrazu. Pred prácou na akomkoľvek vybavení si uvedomte nebezpečenstvo súvisiace s elektrickými obvodmi a oboznámte sa so štandardnými opatreniami na predchádzanie úrazom. Podľa čísla na konci každého upozornenia vyhľadajte jeho preklad v preložených bezpečnostných upozorneniach, ktoré sú priložené k zariadeniu.

USCHOVAJTE SI TENTO NÁVOD

Opozorilo POMEMBNI VARNOSTNI NAPOTKI

Ta opozorilni simbol pomeni nevarnost. Nahajate se v situaciji, kjer lahko pride do telesnih poškodb. Preden pričnete z delom na napravi, se morate zavedati nevarnosti udara električnega toka, ter tudi poznati preventivne ukrepe za preprečevanje takšnih nevarnosti. Uporabite obrazložitevno številko na koncu posameznega opozorila, da najdete opis nevarnosti v priloženem varnostnem priročniku.

SHRANITE TE NAPOTKE!

警告

重要安全性指示

此警告符號代表危險，表示可能造成人身傷害。使用任何設備前，請留心電路相關危險，並熟悉避免意外的標準作法。您可以使用每項警告後的聲明編號，查詢本裝置隨附之安全性警告譯文中的翻譯。
請妥善保留此指示

Installation Warning Statements

This section includes the basic installation warning statements. Translations of these warning statements appear in the *Regulatory Compliance and Safety Information for the Cisco ME 6500 Series Ethernet Switch* document that shipped with the chassis.



Warning

Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 148



Warning

To prevent the switch from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of 104°F (40°C). To prevent airflow restriction, allow at least 3 inches (7.6 cm) of clearance around the ventilation openings. Statement 17



Warning

Installation of the equipment must comply with local and national electrical codes. Statement 1074

**Warning**

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- **This unit should be mounted at the bottom of the rack if it is the only unit in the rack.**
- **When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.**
- **If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack.** Statement 1006

**Warning**

This unit is intended for installation in restricted access areas. A restricted access area can be accessed only through the use of a special tool, lock and key, or other means of security.

Statement 1017

**Warning**

This equipment is intended to be grounded. Ensure that the host is connected to earth ground during normal use. Statement 39

**Warning**

Class 1 laser product. Statement 1008

**Warning**

This product requires short-circuit (overcurrent) protection, to be provided as part of the building installation. Install only in accordance with national and local wiring regulations. Statement 1045

**Warning**

Invisible laser radiation may be emitted from disconnected fibers or connectors. Do not stare into beams or view directly with optical instruments. Statement 1051

**Warning**

Hazardous voltage or energy may be present on DC power terminals. Always replace cover when terminals are not in service. Be sure uninsulated conductors are not accessible when cover is in place. Statement 1075

**Warning**

When removing the fan tray, keep your hands and fingers away from the spinning fan blades. Let the fan blades completely stop before you remove the fan tray. Statement 258

Installing the Switch

The Cisco ME 6524 Ethernet switch is installed in a standard 19-inch rack. This section provides procedures that you can use to install the switch chassis in the rack. For additional installation information, see the *Cisco ME 6500 Series Ethernet Switch Installation Guide* on Cisco.com.

**Note**

The chassis is designed to be mounted in equipment racks that meet ANSI/EIA 310-D and ETS 300-119 standards.

**Warning**

Only trained and qualified personnel should be allowed to install, replace, or service this equipment.
Statement 1030

Required Tools

You need a number-2 Phillips screwdriver to rack-mount the switch. A level and a tape measure are recommended optional tools.

Installation Guidelines

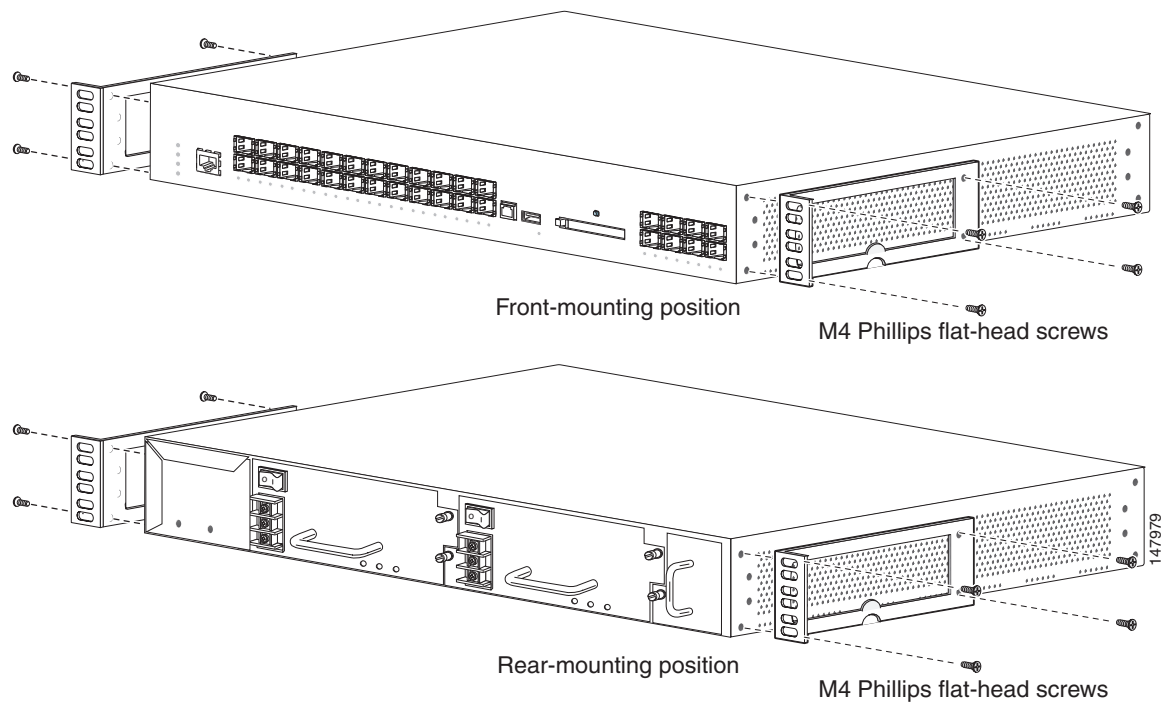
When determining where to install the switch, verify that these guidelines are met:

- Cooling air is drawn into the chassis from the right side and exhausted through the left side (viewed from the front of the chassis).
- Make sure that the airflow around and through the switch and through the rack enclosure vents is unrestricted.
- Verify that the clearance to the switch front and rear panels meets these conditions:
 - The chassis front-panel LEDs can be easily read.
 - Access to ports is adequate for unrestricted cabling.
- On DC-input power supply equipped chassis, make sure that the DC power cables can reach from the source DC power outlet to the DC power supply terminal block on the switch rear panel.
- On AC-input power supply equipped chassis, make sure that the AC power cords can reach from the source AC power outlet to the AC-in connector on the AC power supply.
- Verify that the cabling is away from sources of electrical noise, such as radios, power lines, and fluorescent lighting fixtures.
- The cabling lengths for small form-factor pluggable (SFP) transceivers vary. Refer to the *Cisco ME 6500 Series Ethernet Switches Installation Guide* for further information.
- Make sure that temperature around the switch does not exceed 104°F (40°C).
- Make sure that the humidity around the switch does not exceed 85 percent.
- Make sure that the altitude at the installation site is not greater than 6500 feet (1981 m).

Attaching the L Brackets

Use eight M4 Phillips countersunk-head screws to attach the long side of the L brackets to the Cisco ME 6524 Ethernet switch chassis. The L brackets can be attached to the chassis in two mounting positions: either at the front of the chassis or at the rear of the chassis. (See [Figure 4](#).)

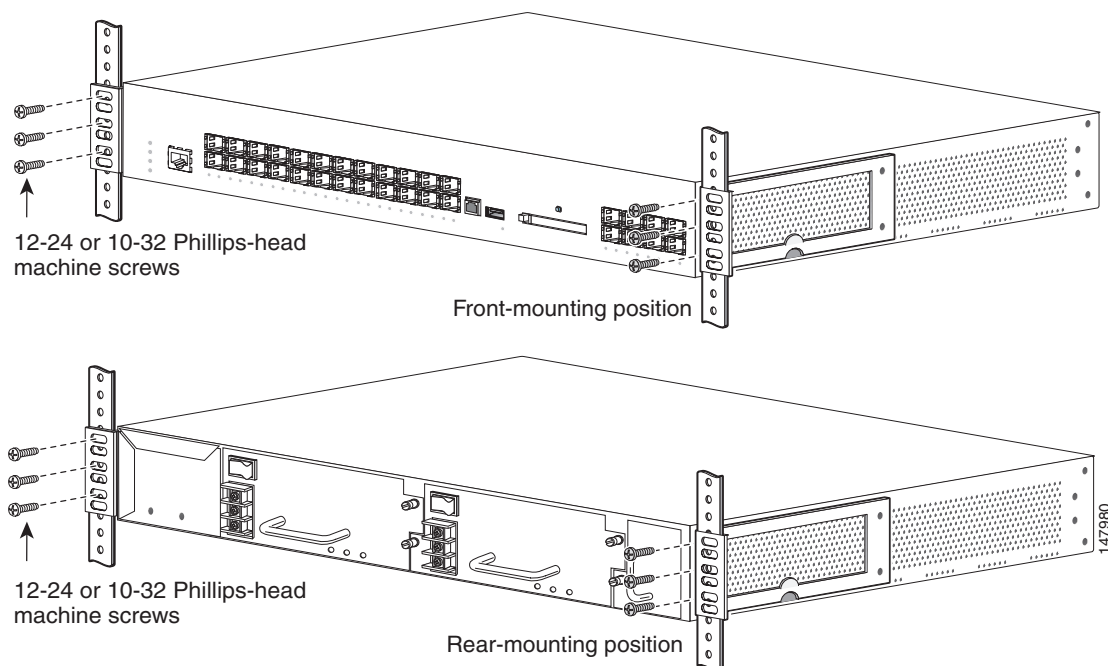
Figure 4 *Installing the L Brackets*



Rack-Mounting the Switch

Use six 10-32 x 3/4-inch or 12-24 x 3/4-inch Phillips machine screws to attach the L brackets to the rack. (See [Figure 5](#).)

Figure 5 *Rack-Mounting the Switch*

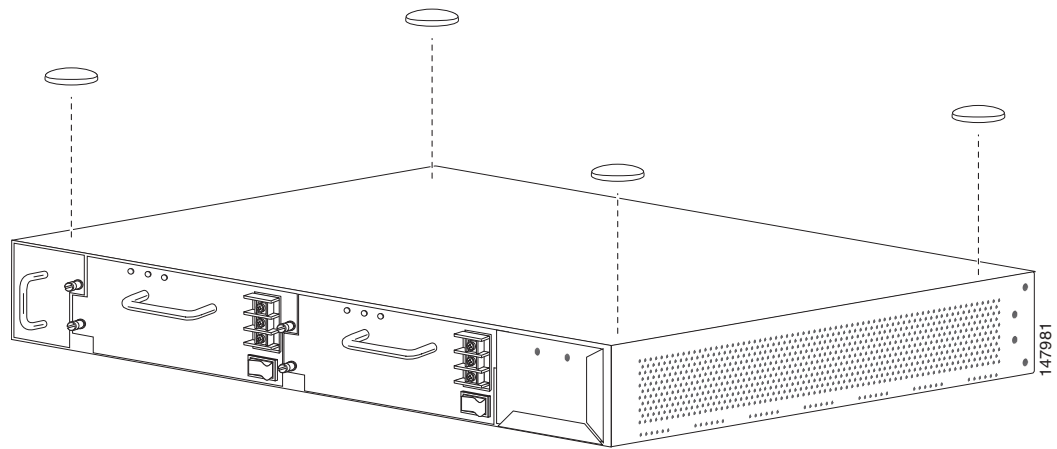


Desktop-Mounting (Optional)

If you are installing the ME 6524 chassis as a free-standing unit instead of rack-mounting the chassis, you need to install the four rubber feet that shipped with the chassis. To install the four rubber feet, follow these steps:

- Step 1** Place the switch chassis upside down on a flat surface.
- Step 2** Attach the four adhesive-backed rubber pads (included in the accessory kit) to the recessed areas on the bottom of the switch chassis. (See [Figure 6](#).)
- Step 3** Place the switch chassis right-side up and position the chassis as close as possible to where the DC source and the system ground are located.

Figure 6 *Installing the Rubber Feet*



Connecting the System Ground

The system (NEBS) ground provides additional grounding for EMI shielding requirements and is intended to satisfy the Telcordia Technologies NEBS requirements for supplemental bonding and grounding connections.



Note

The ground lug and the ground lug screws are supplied as part of the accessory kit. The ground wire and the required tools are not supplied as part of the accessory kit.

To assemble and connect the system ground, you need the following tools and materials:

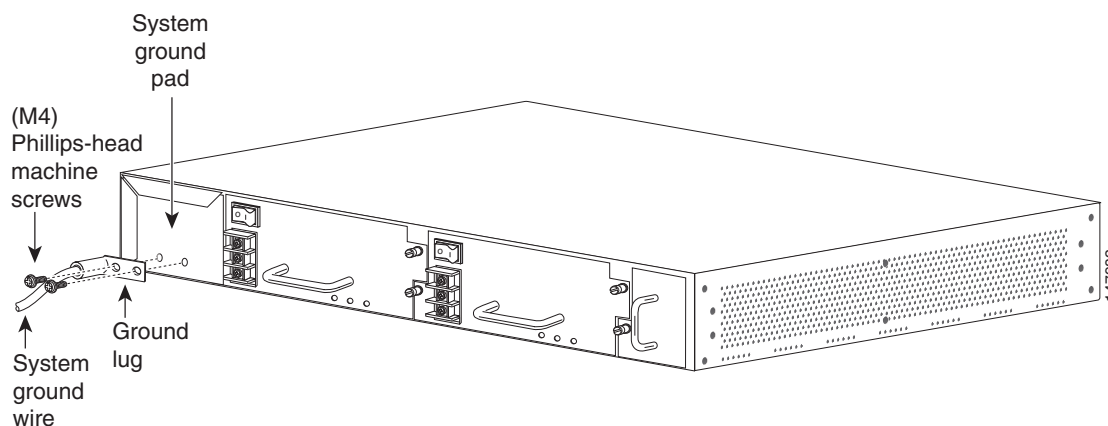
- Ground lug—A two-hole standard 90-degree barrel lug. Supports up to 6 AWG wire.
- Ground screws—Two M4 x 8-mm pan-head screws.
- Ground wire—The ground wire should be sized according to local and national installation requirements. Commercially available 12 AWG to 6 AWG wire is recommended. The length of the ground wire depends on the proximity of the switch to proper grounding facilities.
- Number 1 Phillips screwdriver.
- Wire-stripping tool to remove the insulation from the ground wire.
- Crimping tool to crimp the ground wire to the ground lug.

To assemble the ground lug and cable and attach them to the ground pad (see [Figure 7](#)), follow these steps:

- Step 1** Use a wire-stripping tool to remove approximately 0.75 inch (19 mm) of the covering from the end of the ground wire.
- Step 2** Insert the stripped end of the ground wire into the open end of the ground lug and crimp the barrel of the ground lug. Verify that the ground wire is secure in the ground lug.

- Step 3** Place the ground lug against the ground pad, making sure that there is solid metal-to-metal contact, and secure it to the chassis with two M4 screws. Ensure that the ground lug and the ground wire do not interfere with other cables or equipment.
- Step 4** Prepare the other end of the system ground wire and connect it to an appropriate ground point in your site to ensure adequate earth ground for the switch.

Figure 7 Attaching the System Ground



Connecting the Power Supplies

The ME 6524 switch chassis can physically accommodate two power supplies. Two types of power supplies are currently available:

- A 400 W DC-input power supply
- A 400 W AC-input power supply

The ME 6524 chassis supports the following power supply configurations:

- Two AC-input power supplies
- Two DC-input power supplies
- One AC-input power supply and one DC-input power supply

The next two sections provide cabling instructions for both types of power supplies.

Connecting a DC-Input Power Supply

If your chassis is equipped with DC-input power supplies, you need to run power cables from source DC to the terminal block on the DC-input power supply.



Warning

Before performing any of the following procedures, ensure that power is removed from the DC circuits. To ensure that all power is removed, locate the circuit breakers or fuses on the DC power lines that service the DC circuits. Turn OFF the DC power line circuit breakers and remove the DC power line fuses. Statement 322

**Warning**

When installing or replacing the unit, the ground connection must always be made first and disconnected last. Statement 1046

To attach source DC power cables to the DC-input power supply (see [Figure 8](#)), follow these steps:

- Step 1** Verify that the system (NEBS) ground connection has been installed.
- Step 2** Verify that power is off to the DC circuit that feeds the power supply that you are installing. As an added precaution, place the appropriate safety flag and lockout devices at the source power circuit breaker, or place a piece of adhesive tape over the circuit breaker handle to prevent accidental power restoration while you are working on the circuit.
- Step 3** Verify that the power switch is in the off (0) position on the power supply that you are connecting.
- Step 4** Remove the clear plastic cover from the power supply terminal block and set it aside.
- Step 5** Attach the appropriate size and style connectors to the source DC-input wires. The wire gauge size and the connector size and type are determined by national and local electrical codes.



Note Either insulated crimp-on spade lugs or insulated crimp-on ring connectors can be used.

- Step 6** Loosen the three terminal block screws and position the DC-input connectors under the screws in the following order:
 - Ground wire to the power supply ground terminal
 - Negative (–) source DC cable to the power supply negative (–) terminal
 - Positive (+) source DC cable to the power supply positive (+) terminal
- Step 7** Tighten the three terminal block connections.
- Step 8** Reinstall the power supply terminal block cover.

**Caution**

To prevent a short circuit or shock hazard after wiring the DC-input power supply, you must reinstall the terminal block cover.

**Caution**

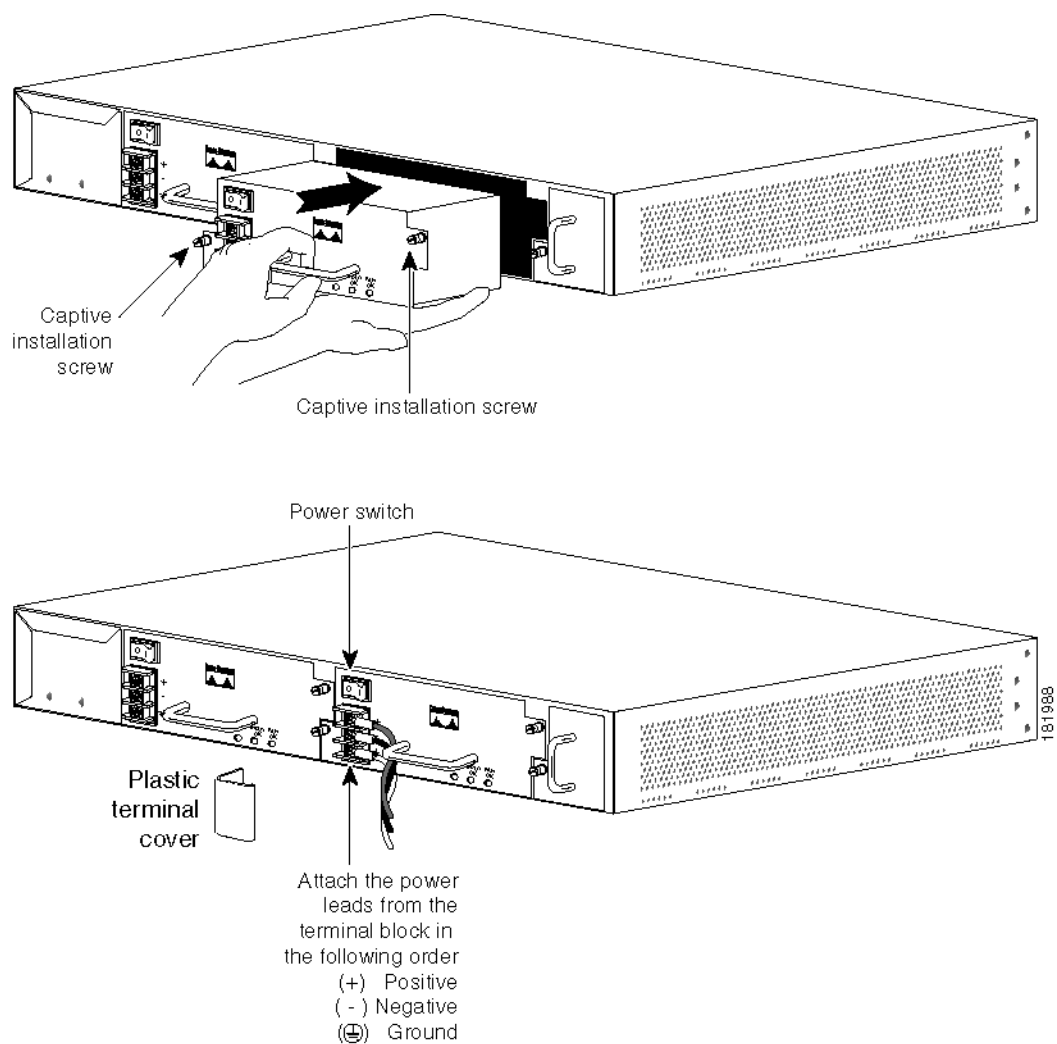
In a system with dual power supplies, connect each power supply to a separate power source. In case of a power source failure to one supply, the second power source should still be available.

- Step 9** Remove any safety flag and lockout devices or any tape from the circuit breaker switch handle, and restore power by moving the circuit breaker switch handle to the on (I) position.

**Note**

If a second power supply is not installed in the chassis, verify that the empty power supply bay has a blank power supply filler plate (Cisco part number 800-27613-xx) installed over the opening, and that the cover's two captive installation screws are tightened.

Figure 8 *Cabling the DC-Input Power Supply*



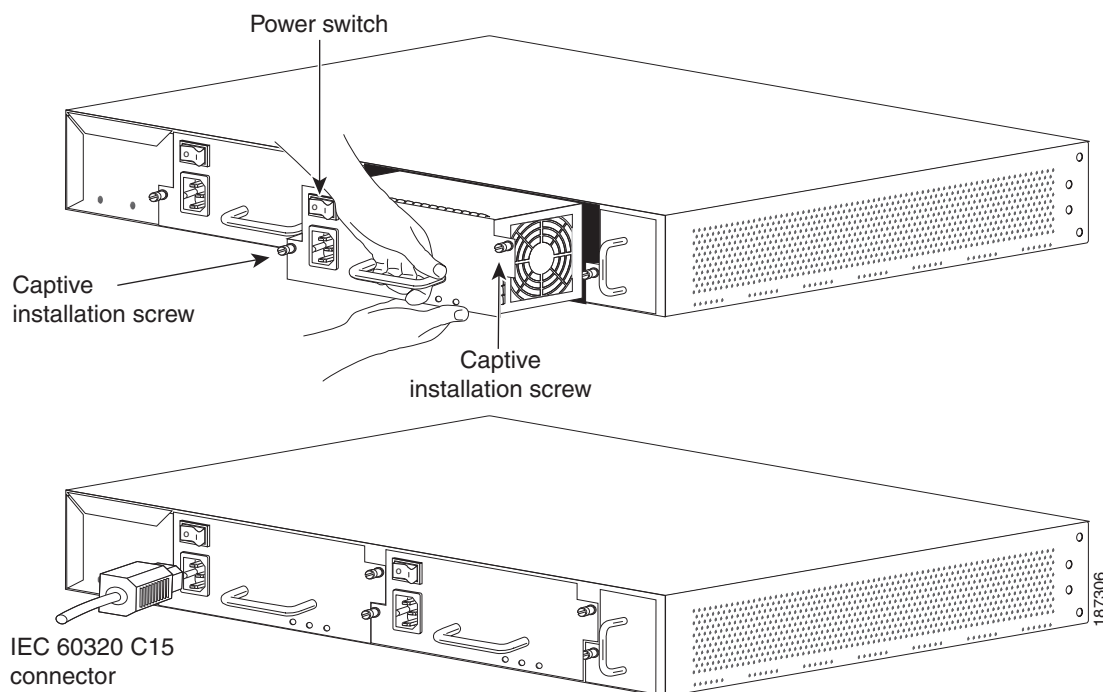
Connecting an AC-Input Power Supply

If your chassis is equipped with AC-input power supplies, you need to run the AC power cord from the source AC to the AC-in connector on the AC-input power supply.

To attach the AC power cord between source AC and the AC-input power supply (see [Figure 9](#)), follow these steps:

-
- Step 1** Verify that the system (NEBS) ground connection has been installed.
 - Step 2** Remove the AC power cord from its packaging.
 - Step 3** Verify that the AC power cord plug is the correct one for your installation site. There are nine different AC power cords available. For AC power cord details, see the *Cisco ME 6500 Series Ethernet Switches Installation Guide*.
 - Step 4** Verify that the power supply is completely seated in the chassis and that the captive installation screws are tight.
 - Step 5** Verify that the power supply power on/off switch is off.
 - Step 6** Connect the C15 appliance plug to the AC-in receptacle on the power supply.
 - Step 7** Connect the power cord plug to the source AC outlet.
-

Figure 9 Installing an AC-Input Power Supply



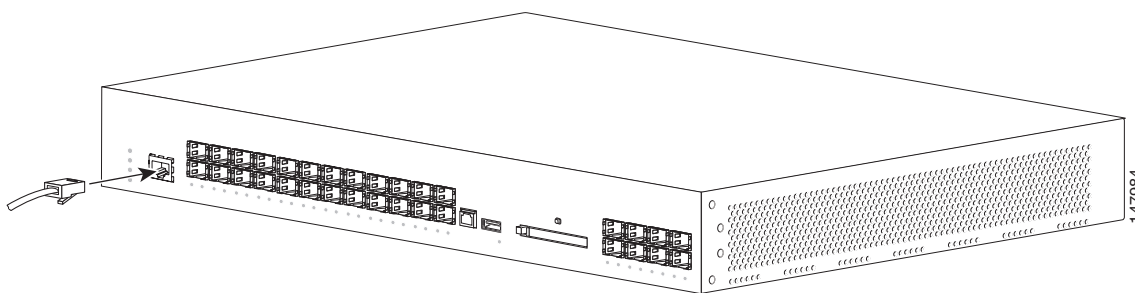
Connecting the Switch Ports

The Cisco ME 6524 Ethernet switch has 1 console port, 24 downlink ports, and 8 uplink ports. This section describes how to connect to the console port, downlink ports, and uplink ports.

Connecting the Console Port

A console port cable equipped with RJ-45 connectors is included in the accessory kit. Plug one end of the cable into the RJ-45 CONSOLE port connector on the switch chassis front panel. Connect the other end of the cable to either a terminal or a modem. (See [Figure 10](#).)

Figure 10 **Cabling the Console Port**



Connecting the Downlink and the Uplink Ports

The 24 Ethernet downlink ports differ between the two chassis models. The ME-C6524GS-8S chassis requires that you install an SFP transceiver in each downlink port socket; the ME-C6524GT-8S chassis has fixed configuration 10/100/1000BASE-T RJ-45 downlink ports and does not require SFP transceivers. The eight Ethernet uplink ports on both chassis require that you install SFP transceivers.

For a list of supported SFP transceivers, see the *Cisco ME 6500 Series Ethernet Switch Installation Guide* on Cisco.com. For additional instructions on installing, removing, and connecting to SFP transceivers, see the documentation that came with the SFP transceivers.



Caution

We strongly recommend that you do not install or remove the SFP transceivers with fiber-optic cable attached to it because of the potential damage to the cables, the connector, or the optical interfaces in the SFP transceiver. Disconnect all cables before removing or installing an SFP transceiver.



Caution

Removing and installing an SFP transceiver can shorten its useful life. Do not remove and insert SFP transceivers more often than is absolutely necessary.



Caution

The SFP transceivers are static-sensitive devices. Always use an ESD wrist strap or similar individual grounding device when handling SFP transceivers.

To install the SFP transceiver and to connect the optical network cables, follow these steps:

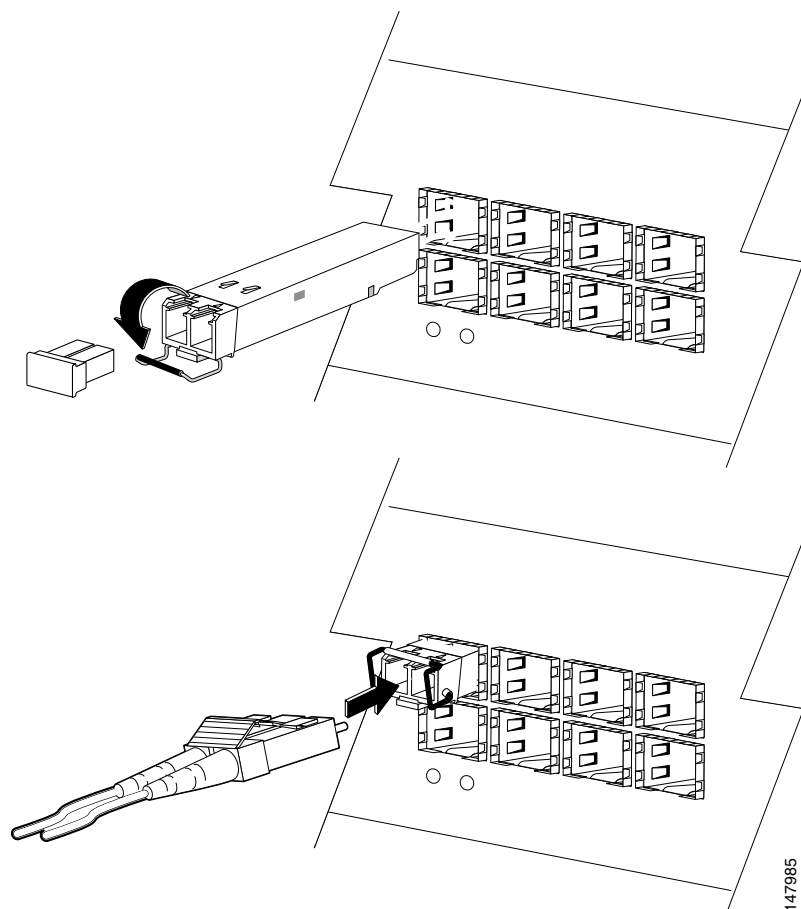
- Step 1** Attach an ESD-preventive wrist strap to your wrist and to the ESD ground connector on your chassis.
- Step 2** Remove the SFP transceiver from its protective packaging.
- Step 3** Check the label on the SFP transceiver body to verify that you have the correct model for your network and locate the send (Tx) and receive (Rx) markings that identify the top side of the SFP transceiver.



Note On some SFP transceivers, the Tx and Rx marking might be replaced by arrows that point from the SFP transceiver connector (transmit direction or Tx) toward the connector (receive direction or Rx).

- Step 4** Carefully insert the transceiver halfway into the socket. Remove the optical bore dust plugs, pivot the transceiver bail-clasp down, and continue to slide the transceiver into the socket until you feel the SFP transceiver connector snap into place in the socket connector. (See [Figure 11](#).)
- Step 5** Pivot the SFP transceiver bail-clasp fully up to lock the transceiver in place and immediately reinstall the dust plugs into the optical bores.

Figure 11 *Installing an SFP Transceiver*



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Cleaning the SFP Transceiver Optics

For optical SFP transceivers, before making any optical connections, observe the following guidelines:

- Always keep the protective dust plugs on the unplugged fiber-optic cable connectors and the transceiver optical bores until you are ready to make a connection.
- Always inspect and clean the LC connector end-faces just before making any connections.
- Always grasp the LC connector housing to plug or unplug a fiber-optic cable.

To inspect the optics and connect the fiber-optic cable to the SFP transceiver, follow these steps:

-
- Step 1** Remove the dust plugs from the network interface cable LC connectors. Save the dust plugs for future use.
- Step 2** Inspect and, if necessary, clean the network cable LC connector's fiber-optic end-faces. An inspection and cleaning procedures document is available at the following url:
http://www.cisco.com/en/US/tech/tk482/tk876/technologies_white_paper09186a0080254eba.shtml
- Step 3** Remove the dust plugs from the SFP transceiver optical bores and immediately attach the network interface cable LC connector to the SFP transceiver.
- Step 4** To connect 1000BASE-T SFP transceivers to a copper network, perform the following substeps:



Caution

To comply with GR-1089 intrabuilding lightning immunity requirements, you must use grounded, shielded, twisted-pair, Category 5 cabling.

- a. Insert the copper network cable RJ-45 connector into the SFP transceiver connector.



Note

When connecting to a 1000BASE-T-compatible server, workstation, or router, use four twisted-pair, straight-through Category 5 cabling for the SFP transceiver port. When connecting to a 1000BASE-t-compatible switch or repeater, use four twisted-pair, crossover Category 5 cables.

- b. Insert the other end of the network cable into an RJ-45 port on a 1000BASE-T-compatible target device.

- Step 5** Observe the port status LED:
- The LED turns green when the SFP transceiver and the target device have an established link.
 - The LED turns amber while the SFP transceiver discovers the network topology and searches for loops. This process takes about 30 seconds, and then the LED turns green.
 - If the LED is off, the target device might not be turned on, there might be a cable problem, or there might be a problem with the adapter that is installed in the target device.
-

Starting the System

To power up the system, follow these steps:

-
- Step 1** Before you start the system, verify the following:
- All interface cables are secure.
 - Each power supply is connected to a grounded power source.
 - If both power supplies are installed, each power supply is connected to a different source circuit.
 - System ground is attached to the system.
 - A terminal is connected to the console port.
- Step 2** Set the power switch on each power supply to on (I). The system begins the boot process.
- Step 3** During the boot process, verify the following:
- The power supply LEDs are green.
 - The PS LEDs on the chassis front panel are green.
 - The FAN LED on the chassis front panel should be green and you can hear the system fans operating.
 - The STATUS LED on the chassis front panel cycles through orange and then turns green after the system boot is complete.
 - The console terminal displays a script and a system banner.
- Step 4** Press **Return** at the Enter Password prompt to access the console command line.
-

Verifying Port Connectivity

After you connect to the switch port, the port LED cycles through the following colors:

- Amber—The switch is establishing a link. This process takes about 30 seconds.
- Green— The switch and the target device have an established link.



Note

If the port LED remains unlit, the target device might not be turned on, a cable problem might exist, or a problem might exist with the adapter installed in the target device.

Your hardware installation is complete. See the *Cisco ME 6500 Series Ethernet Switches System Configuration Guide* to configure the switch.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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